

In the claims:

1. A radio network controller including a plurality of protocol layers, which comprises a plurality of blocks each formed of protocol layers obtained by segmenting said plurality of protocol layers and a UDP (User Datagram Protocol)/IPv6 (Internet Protocol version 6) layer which connects said plurality of blocks.

2. The radio network controller according to claim 1, wherein said plurality of protocol layers include at least a PDCP (Packet Data Convergence Protocol) layer, an RLC (Radio Link Control) layer which executes U (User)-plane data segmentation and concatenation, a MAC (Medium Access Control) layer and an FP (Frame Protocol) layer.

3. The radio network controller according to claim 2, wherein said plurality of protocol layers are segmented to execute QoS (Quality of Service) control taking said RLC layer into consideration.

4. The radio network controller according to claim 2 or claim 3, comprising a filtering function of detecting a start packet and an end packet each set in advance from said U-plane data to input data with said start packet and end packet excluded to a buffer and abandon

the data according to the detection result.

5. A QoS (Quality of Service) control method of a radio network controller including a plurality of protocol layers, where said plurality of protocol layers are segmented into blocks to execute QoS control taking an RLC (Radio Link Control) layer which executes U (User)-plane data segmentation and concatenation into consideration and connect these blocks by a UDP (User Datagram Protocol)/IPv6 (Internet Protocol version 6) layer.

6. The QoS control method according to claim 5, wherein said plurality of protocol layers include at least a PDCP (Packet Data Convergence Protocol) layer, said RLC layer, a MAC (Medium Access Control) layer and an FP (Frame Protocol) layer.

7. The QoS control method according to claim 5 or claim 6, wherein by the control of a filtering function of detecting a start packet and an end packet each set in advance from said U-plane data, data with said start packet and end packet excluded is input to a buffer and abandoned according to the detection result.